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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/691,336 | 10/22/2003 | Kazunori Mori | 3408.68566 | 1414 |

7590 06/09/2006
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| EXAMINER |
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SNIEZEK, ANDREW L

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| ART UNIT | PAPER NUMBER |
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2627

DATE MAILED: 06/09/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/691,336

Applicant(s)

MORI ET AL.

Examiner

Andrew L. Snizek

Art Unit

2627

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 25 May 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,2 and 4-11 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,8 and 11 is/are rejected.
- 7) ☒ Claim(s) 2, 4-7, 9 and 10 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☐ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: _____.

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 5/25/06 has been entered.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1, 8 and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Sri-Jayantha et al. (US006097565A) .

Re claims 1 and 8: Sri-Jayantha et al. teaches a recording apparatus as depicted in figure 3 that includes a discoid record (34) a head (36) a rotation shaft (located at center of the discoid) and control unit (12) such that the discoid contains servo information thereon (figure 5, 56). The control unit controls the position of the head based on position conversion information (stored in reserved sectors of the discoid) in advance (during disk manufacturing) in a manner as set forth by claim 1. Claim 1 additionally sets forth the predetermined area on the concentric orbits defined by the

Art Unit: 2627

servo information in an area in which the position conversion information can be read out even when data has been written along the concentric orbits of which the center is the rotation shaft. It is clear from figures 3 and 5 that the user data is written along the same radial location with respect to the center of rotation of the disk as the reserved data sectors that contain the position conversion information that can be read. Also the claimed start-up limitation as now set forth in claim 1 is satisfied by column 3, lines 45-52. Having the conversion information recorded in advance is taught by column 3, line 50 "during the manufacturing". Allowing a head to follow virtual tracks is deemed satisfied by column 3, lines 12-14 in which virtual tracks are used instead of the original tracks. These virtual tracks are defined as free of RRO components, therefore are positioned around the center of rotation of the disk. Also, an area in which user data cannot overwrite any data is satisfied by the "reserved" zone of the disk. The word "reserved" has a standard meaning of keeping, reserving or setting apart for an intended use. Alternatively the position conversion information can be recorded as part of the servo area as depicted in figure 5 which will not be overwritten by user data. Claim 8 sets forth a method of starting up a recording apparatus that sets forth substantially the same limitations, although worded in a different manner as presented in claim 1 and is therefore satisfied by Sri-Jayantha et al. for similar reasons. Claim 11 contains similar limitations as discussed with respect to claim 1 and is satisfied by Sri-Jayantha et al for reasons provided. Claim 11 additionally refers to a plurality of pieces of position conversion information. This additional feature is deemed satisfied by at least column 3, lines 33-40. The limitations of claim 4 appears to be satisfied by the

Art Unit: 2627

reserved data sectors as depicted in figure 3 that inter-dispersed between the servo sectors

Allowable Subject Matter

4. Claims 2, 4-7, 9 and 10 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The reasons for allowable subject matter were provided in the office action mailed 8/30/05.

Response to Arguments

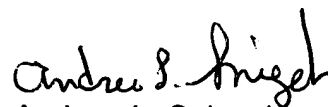
5. Applicant's arguments filed 11/21/05 have been fully considered but they are not persuasive.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew L. Sniezek whose telephone number is 571-272-7563. The examiner can normally be reached on Mon.-Fri..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa Nguyen can be reached on 571-272-7579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2627

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


Andrew L. Snizek
Primary Examiner
Art Unit 2627

A.L.S.
6/2/06